

### In the Claims

The claims have been amended as follows:

1 Claim 1-7 (cancel)

1 Claim 8 (Currently Amended) A sheet comprising fibrillated lyocell fibers and a  
 2 microbiological interception enhancing agent on a portion of selected ones of said  
 3 fibrillated lyocell fibers, said fibrillated lyocell fibers having a Canadian Standard  
 4 Freeness of less than about 100 and/or a fiber diameter of less than or equal to about  
 5 400nm, wherein said sheet is capable of being carbonized at a temperature of less  
 6 than about 600°C.

1 Claim 9 (original) A sheet of claim 8 wherein said sheet is further heated to form  
 2 an activated carbon sheet having a BET surface area of greater than about 800 m<sup>2</sup>/g.

3 Claim 10 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers have a  
 4 Canadian Standard Freeness of less than about 45 or a fiber diameter of less than  
 5 about 250nm.

1 Claim 11 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers have a  
 2 Canadian Standard Freeness of less than about 0 or a fiber diameter of less than  
 3 about 250nm.

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1 Claim 12 (cancel)

1 Claim 13 (cancel)

1 Claim 14 (withdrawn) A sheet of claim 8 further including active agents  
2 captured therein.

1 Claim 15 (withdrawn) A sheet of claim 14 wherein the active agents comprise  
2 metals, metal salts, metal oxides, glass, alumina, carbon, activated carbon, silicates,  
3 ceramics, zeolites, diatomaceous earth, activated bauxite, fuller's earth, calcium  
4 sulfate, titanium dioxide, magnesium hydroxide, manganese oxides, magnesia,  
5 perlite, talc, clay, bone char, pitch, calcium hydroxide, calcium salts, or  
6 combinations thereof.

1 Claim 16 (original) A sheet of claim 8 further including a microbiological  
2 interception enhancing agent.

1 Claim 17 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers are  
2 admixed with active agents, and made into a paper prior to carbonization.

1 Claim 18 (withdrawn) A sheet of claim 8 wherein said sheet is used as an  
2 electrode.

1 Claim 19 (withdrawn) A sheet of claim 8 further including a catalyst or a  
2 catalyst support.

1 Claim 20 (original) A filter medium comprising the sheet of claim 8.

1 Claim 21 (Currently Amended) A sheet comprising activated, carbonized  
2 fibrillated lyocell fibers and a microbiological interception enhancing agent on a  
3 portion of selected ones of said fibrillated lyocell fibers, said fibrillated lyocell fibers  
4 having a BET surface area of greater than about 800m<sup>2</sup>/g, wherein prior to  
5 carbonization and activation, the fibrillated fibers have a Canadian Standard  
6 Freeness of less than about 100 or a fiber diameter of less than or equal to about  
7 400nm and wherein activation occurs in less than or equal to about 30 minutes at a  
8 temperature greater than about 875°C in an oxidizing atmosphere.

1 Claim 22 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45 or a fiber diameter of less than  
3 about 250nm.

1 Claim 23 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0 or a fiber diameter of less than  
3 about 250nm.

1 Claim 24 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers  
2 comprise polymers, liquid crystal polymers, engineered resins, cellulose, rayon,  
3 ramie, wool, silk, or combinations thereof.

1 Claim 25 (cancel)

1 Claim 26 (withdrawn) A sheet of claim 21 further including active agents  
2 captured therein.

1 Claim 27 (withdrawn) A sheet of claim 26 wherein the active agents comprise  
2 metals, metal salts, metal oxides, glass, alumina, carbon, activated carbon, silicates,  
3 ceramics, zeolites, diatomaceous earth, activated bauxite, fuller's earth, calcium  
4 sulfate, titanium dioxide, magnesium hydroxide, manganese oxides, magnesia,  
5 perlite, talc, clay, bone char, pitch, calcium hydroxide, calcium salts, or  
6 combinations thereof.

1 Claim 28 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers are  
2 admixed with active agents, and made into a paper prior to carbonization and  
3 activation.

1 Claim 29 (withdrawn) A sheet of claim 21 further including a catalyst or a  
2 catalyst support.

1 Claim 30 (cancel)

1 Claim 31 (withdrawn) A filter medium comprising the sheet of claim 21.

1 Claim 32 (currently amended and withdrawn) A sheet comprising carbonized  
2 fibrillated fibers and a microbiological interception enhancing agent on a portion of  
3 selected ones of said fibrillated fibers, said fibrillated fibers having a Canadian  
4 Standard Freeness of less than about 45 or a fiber diameter of less than or equal to  
5 about 250nm, and active agents captured within said carbon sheet, said active  
6 agents present in an amount greater than about 10 weight percent of a total weight  
7 of said sheet.

1 Claim 33 (withdrawn) A sheet of claim 32 wherein the active agents comprise  
2 metals, metal salts, metal oxides, glass, alumina, carbon, activated carbon, silicates,  
3 ceramics, zeolites, diatomaceous earth, activated bauxite, fuller's earth, calcium  
4 sulfate, titanium dioxide, magnesium hydroxide, manganese oxides, magnesia,  
5 perlite, talc, clay, bone char, pitch, calcium hydroxide, calcium salts, or  
6 combinations thereof.

1 Claim 34 (withdrawn) A sheet of claim 32 wherein said active agents are  
2 present in an amount of greater than 50 weight percent.

1 Claim 35 (withdrawn) A sheet of claim 32 wherein said active agents have  
2 a particle size of less than about 50  $\mu\text{m}$  and are present in an amount of greater than  
3 97 weight percent.

1 Claim 36 (withdrawn) A sheet of claim 32 wherein said sheet is used as an  
2 electrode.

1 Claim 37 (withdrawn) A sheet of claim 32 further including a catalyst or a  
2 catalyst support incorporated therein.

1 Claim 38 (cancel)

1 Claim 39 (withdrawn) A filter medium comprising the sheet of claim 32.

1 Claim 40 (currently amended and withdrawn) A sheet comprising activated,  
2 carbonized fibrillated fibers and a microbiological interception enhancing agent on a  
3 portion of selected ones of said fibrillated fibers, wherein the fibrillated fibers have a  
4 Canadian Standard Freeness of less than about 45, a diameter of less than or equal to  
5 about 250nm, and active agents captured therein, wherein the active agents are  
6 present in an amount greater than about 10 weight percent of a total weight of said  
7 sheet.

1 Claim 41 (withdrawn) A sheet of claim 40 wherein the active agents  
2 comprise metals, metal salts, metal oxides, glass, alumina, carbon, activated carbon,  
3 silicates, ceramics, zeolites, diatomaceous earth, activated bauxite, fuller's earth,  
4 calcium sulfate, titanium dioxide, magnesium hydroxide, manganese oxides,  
5 magnesia, perlite, talc, clay, bone char, pitch, calcium hydroxide, calcium salts, or  
6 combinations thereof.

1 Claim 42 (withdrawn) A sheet of claim 40 further including a catalyst or a  
2 catalyst support.

1 Claim 43 (cancel)

1 Claim 44 (withdrawn) A filter medium comprising the sheet of claim 40.

1 Claims 45-74 (cancel)

1 Claim 75 (new) A sheet comprising fibrillated fibers having a microbiological  
2 interception enhancing agent on a portion of selected ones of said fibrillated fibers,  
3 said microbiological interception enhancing agent comprising a biologically active  
4 metal precipitated with a counter ion of a cationic material that is adsorbed on said  
5 portion of said selected ones of said fibrillated fibers.

1 Claim 76 (new) The sheet of claim 75 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 100.

1 Claim 77 (new) The sheet of claim 75 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45.

1 Claim 78 (new) The sheet of claim 75 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0.

1 Claim 79 (new) The sheet of claim 75 wherein said fibrillated fibers have a  
2 fiber diameter of less than about 250nm.

1 Claim 80 (new) The sheet of claim 75 further including active agents captured  
2 therein.

1 Claim 81 (new) The sheet of claim 80 wherein said active agents are present in  
2 an amount of greater than about 10 weight percent of a total weight of said sheet.

1 Claim 82 (new) The sheet of claim 80 wherein said active agents have a  
2 particle size of less than about 50  $\mu\text{m}$ .

1 Claim 83 (new) The sheet of claim 75 further including a catalyst or a catalyst  
2 support.



1 Claim 84 (new) The sheet of claim 75 wherein said cationic material is  
2 selected from the group consisting of a colloid, a charged molecule, and a linear or  
3 branched polymer having positively charged atoms along a length of said polymer  
4 chain having said counter ion associated therewith.

1 Claim 85 (new) A sheet comprising activated, carbonized fibrillated fibers  
2 having a microbiological interception enhancing agent on a portion of selected  
3 ones of said fibrillated fibers, said microbiological interception enhancing agent  
4 comprising a biologically active metal precipitated with a counter ion of a cationic  
5 material that is adsorbed on said portion of said selected ones of said fibrillated  
6 fibers.

1 Claim 86 (new) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 100.

1 Claim 87 (new) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45.

1 Claim 88 (new) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0.

1 Claim 89 (new) The sheet of claim 85 wherein said fibrillated fibers have a  
2 fiber diameter of less than about 250nm.

1 Claim 90 (new) The sheet of claim 85 further including active agents captured  
2 therein.

1 Claim 91 (new) The sheet of claim 85 further including a catalyst or a catalyst  
2 support.

1 Claim 92 (new) The sheet of claim 85 wherein said cationic material is  
2 selected from the group consisting of a colloid, a charged molecule, and a linear or  
3 branched polymer having positively charged atoms along a length of said polymer  
4 chain having said counter ion associated therewith.

1 Claim 93 (new) A sheet comprising fibrillated lyocell fibers having a  
2 microbiological interception enhancing agent on a portion of selected ones of said  
3 fibrillated fibers, said microbiological interception enhancing agent comprising a  
4 biologically active metal precipitated with a counter ion of a cationic material that  
5 is adsorbed on said portion of said selected ones of said fibrillated fibers.

1 Claim 94 (new) The sheet of claim 93 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 100.

1 Claim 95 (new) The sheet of claim 93 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45.

1 Claim 96 (new) The sheet of claim 93 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0.

1 Claim 97 (new) The sheet of claim 93 wherein said fibrillated fibers have a  
2 fiber diameter of less than about 250nm.

1 Claim 98 (new) The sheet of claim 93 further including active agents captured  
2 therein.

1 Claim 99 (new) The sheet of claim 93 further including a catalyst or a catalyst  
2 support.

1 Claim 100 (new) The sheet of claim 93 wherein said cationic material is  
2 selected from the group consisting of a colloid, a charged molecule, and a linear or  
3 branched polymer having positively charged atoms along a length of said polymer  
4 chain having said counter ion associated therewith.

1 Claim 101 (new) A sheet comprising activated, carbonized fibrillated lyocell  
2 fibers having a microbiological interception enhancing agent on a portion of  
3 selected ones of said fibrillated fibers, said microbiological interception enhancing

4 agent comprising a biologically active metal precipitated with a counter ion of  
5 a cationic material that is adsorbed on said portion of said selected ones of said  
6 fibrillated fibers.

1 Claim 102 (new) The sheet of claim 101 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 100.

1 Claim 103 (new) The sheet of claim 101 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45.

1 Claim 104 (new) The sheet of claim 101 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0.

1 Claim 105 (new) The sheet of claim 101 wherein said fibrillated fibers have a  
2 fiber diameter of less than about 250nm.

1 Claim 106 (new) The sheet of claim 101 further including active agents  
2 captured therein.

1 Claim 107 (new) The sheet of claim 101 further including a catalyst or a catalyst  
2 support.

- 1 Claim 108 (new) The sheet of claim 101 wherein said cationic material is
- 2 selected from the group consisting of a colloid, a charged molecule, and a linear or
- 3 branched polymer having positively charged atoms along a length of said polymer
- 4 chain having said counter ion associated therewith.